| l l | ndex | of Cla | aims |  |
|-----|------|--------|------|--|
|     |      |        |      |  |

10/826,319

Examiner

Saeed T. Chaudhry

Applicant(s)/Patent under Reexamination

AOYAMA ET AL.

Art Unit

1792

|   | <b>√</b> | Rejected |
|---|----------|----------|
| - | 1        | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

| Z | Non-Elected  |
|---|--------------|
| 1 | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla           | aim      | Date             |              |                |  | Г        | Claim Date   |              |                |          |          |       |          |          | Claim Date |          |              |                 |          |          |          |          |          | $\neg$     |  |                  |           |          |          |          |          |          |           |
|---------------|----------|------------------|--------------|----------------|--|----------|--------------|--------------|----------------|----------|----------|-------|----------|----------|------------|----------|--------------|-----------------|----------|----------|----------|----------|----------|------------|--|------------------|-----------|----------|----------|----------|----------|----------|-----------|
| <del>اٽ</del> |          | <u> </u>         | _            | Γ              | Г.   | <u> </u> | Ť            |              | Ι.             | П        | $\vdash$ |       |          |          |            |          |              |                 |          | $\Box$   | <u> </u> | Γ.       | <u> </u> | П          | П  | Ť                |           |          |          |          | $\neg$   |          |           |
| Final         | Original | 1/18/08          |              |                |  |          |              |              |                |          |          | Final | Original |          |            |          |              |                 |          |          |          |          | Final    | Original   | -  |                  |           |          |          |          |          |          |           |
| <u> </u>      | 1        |                  | -            | $\vdash$       | ├-   |          | $\vdash$     | $\vdash$     | $\vdash$       | Н        | ⊢        |       | 51       | $\vdash$ | $\vdash$   |          | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ | -        | $\dashv$ | -        | 101        |  | $\vdash$         | +         | $\dashv$ | _        |          | $\dashv$ |          | $\dashv$  |
| <u> </u>      | 2        | ├                |              |                | -  | -        | -            | -            | -              | Н        | H        |       | 52       | $\vdash$ | -          |          | $\vdash$     | $\vdash$        | -        |          | -        | $\dashv$ |          | 102        | $\vdash$   |                  | +         | -        | -        | $\neg$   | $\dashv$ | -        | $\neg$    |
| <u> </u>      | 3        | ├                |              | <del>  -</del> | ├-   | ⊢        | $\vdash$     | $\vdash$     | ├              | Н        | $\vdash$ |       | 53       | H        | _          | -        | $\vdash$     | $\vdash$        |          |          |          | $\dashv$ |          | 103        |  |                  | +         | -        | $\dashv$ |          | $\dashv$ | _        |           |
| <u> </u>      | 4        | -                | -            | _              | ├  | -        | $\vdash$     |              |                | Н        | $\vdash$ |       | 54       | $\vdash$ | $\vdash$   | -        | $\vdash$     | $\vdash$        |          |          | -        | $\dashv$ |          | 104        |  | $\vdash$         | +         | -        |          |          | $\dashv$ | _        | $\dashv$  |
|               | 5        | -                | ⊢            | ⊢              | ⊢  | ├        |              | -            | $\vdash$       |          | ⊢        |       | 55       | -        |            | -        | -            | Н               | $\dashv$ | $\dashv$ |          | $\dashv$ |          | 105        | -  |                  | $\dagger$ | _        |          |          | $\dashv$ |          | $\neg$    |
|               | 6        |                  |              |                | ├  | ├        | -            | $\vdash$     | $\vdash$       | Н        | ⊢        | _     | 56       |          | Н          | -        | -            | Н               |          | $\dashv$ | -        |          |          | 106        | -  | $\vdash$         | +         |          |          |          | 寸        | _        | $\dashv$  |
| ├             | 7        | -                |              | $\vdash$       | ⊢  | ┢        | $\vdash$     | -            | -              | -        | ⊢        |       | 57       | H        | _          | _        | $\vdash$     | $\vdash$        | $\neg$   |          | $\dashv$ | $\dashv$ |          | 107        | -  | $\vdash$         | +         | $\dashv$ | $\neg$   | _        |          |          | $\dashv$  |
|               | 8        |                  | ├            |                | <del>                                     </del> | ┢        | $\vdash$     |              | -              | Н        | ⊢        |       | 58       | H        |            | -        | -            | $\vdash$        |          |          | $\dashv$ | $\dashv$ |          | 108        | $\vdash$   | $\vdash$         | +         | $\dashv$ |          |          |          |          | $\dashv$  |
| <u> </u>      | 9        | ⊢                |              | -              |  | ┢        | ⊢            | $\vdash$     | $\vdash$       | Н        | ⊢        |       | 59       |          |            | -        | -            |                 | $\dashv$ | _        | $\neg$   | $\dashv$ |          | 109        | -  | $\vdash$         | 寸         | -        |          | $\neg$   | $\dashv$ | _        | $\dashv$  |
| <u> </u>      | 10       | -                | -            | -              | $\vdash$   |          | ⊢            | -            |                |          | ⊢        |       | 60       | H        | -          | -        | $\vdash$     | $\vdash$        | -        |          |          | $\dashv$ |          | 110        | -  | $\vdash$         | +         | $\dashv$ | $\dashv$ | $\neg$   | _        | _        | Н         |
|               | 11       | -                |              | -              | $\vdash$   |          |              |              | -              | Н        | ⊢        | _     | 61       | H        | -          |          | $\vdash$     | $\vdash$        | -        |          | $\dashv$ | $\dashv$ |          | 111        | $\vdash$   |                  | +         | $\neg$   | $\dashv$ |          | $\neg$   | _        | $\dashv$  |
| <u> </u>      | 12       | ┝                |              | <u> </u>       |  | $\vdash$ | $\vdash$     | Н            | $\vdash$       | Н        | ⊢        |       | 62       |          | -          | -        | -            | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | 112        | -  | $\vdash$         | +         | -        |          | $\neg$   | $\dashv$ | $\neg$   | $\neg$    |
| <u> </u>      | 13       | -                | ┢            | -              | ├  | ├        |              |              | -              |          | -        |       | 63       | $\vdash$ | _          |          | $\vdash$     |                 |          | -        | ᅦ        | $\dashv$ |          | 113        | $\vdash$   |                  | $\forall$ | $\dashv$ | $\neg$   | _        |          | _        | $\exists$ |
| $\vdash$      | 14       | -                |              | -              | ├  | ├─       | $\vdash$     | $\vdash$     | ┢              | Н        | ⊢        |       | 64       |          |            | -        | -            |                 | $\dashv$ | $\dashv$ | ᅥ        | -        |          | 114        | -  | $\vdash$         | $\dashv$  | $\dashv$ | _        | $\neg$   | $\dashv$ | _        | $\dashv$  |
| <u> </u>      | 15       | $\vdash$         | $\vdash$     | $\vdash$       | ├-   |          |              |              | $\vdash$       | Н        | ⊢        |       | 65       | ├        | -          | $\vdash$ | ┝            |                 | $\dashv$ |          | $\dashv$ | $\dashv$ |          | 115        | -  |                  | $\dagger$ | 一        |          | $\dashv$ | $\dashv$ |          | $\dashv$  |
| $\vdash$      | 16       | ⊢                | $\vdash$     | $\vdash$       |  | -        | $\vdash$     |              | $\vdash$       |          | ⊢        |       | 66       |          |            | ⊢        | ┢            | -               | $\neg$   | $\dashv$ | $\dashv$ | $\dashv$ |          | 116        | $\vdash$   | <del>     </del> | $\dagger$ | _        |          |          | $\dashv$ | -        | $\dashv$  |
| -             | 17       | -                |              | ├              | ╁  | ├        | ├            |              |                | -        | ⊢        |       | 67       | $\vdash$ |            | -        | -            | Н               |          | _        |          | $\dashv$ |          | 117        | $\vdash$   |                  | +         |          |          | $\dashv$ | _        | _        | $\dashv$  |
| $\vdash$      | 18       |                  | -            | $\vdash$       | $\vdash$   | $\vdash$ | ├            |              |                | Н        | $\vdash$ |       | 68       | H        |            | -        |              | Н               | $\dashv$ |          | -        | $\dashv$ | -        | 118        | -  | $\vdash$         | +         |          | $\neg$   | $\neg$   | ᄀ        | _        | $\dashv$  |
| ┝             | 19       |                  | -            | $\vdash$       | ┢  | ┢        | ├-           | -            | -              | H        | $\vdash$ |       | 69       | H        | -          | -        | H            | Н               | $\dashv$ | $\dashv$ |          | $\dashv$ |          | 119        | $\vdash$   | $\vdash$         | $\dashv$  |          | $\dashv$ |          | $\dashv$ |          | $\neg$    |
| -             | 20       | ┝                | -            | -              | ├  | ├        |              | -            | -              | $\vdash$ | $\vdash$ |       | 70       |          |            | $\vdash$ | -            | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | 120        | -  | H                | $\dashv$  | $\dashv$ |          | _        | $\dashv$ | _        | $\dashv$  |
|               | 21       | -                |              | -              | ├  | -        | ┝            | -            | -              | Н        | ⊢        |       | 71       |          |            | $\vdash$ | ┝            |                 |          | -        | $\dashv$ | $\dashv$ |          | 121        | -  |                  | $\dashv$  | 一        |          | -        | 1        | _        | 一         |
| <u> </u>      | 22       | ├                | -            | -              | ├  | ├        | -            | $\vdash$     | $\vdash$       | -        | -        |       | 72       | -        | -          |          | $\vdash$     | Н               | -        | -        | $\dashv$ | $\dashv$ |          | 122        | H  |                  | $\dashv$  | 一        | $\dashv$ | _        | $\neg$   | -        | $\dashv$  |
| $\vdash$      | 23       | -                |              | ├              | $\vdash$   | $\vdash$ | ⊢            | -            | $\vdash$       | $\vdash$ | ·  -     |       | 73       | Н        |            | -        | -            | $\vdash$        | $\dashv$ | -        | -        |          | -        | 123        | -  | $\vdash$         | +         |          | -        |          | $\dashv$ |          | $\dashv$  |
| -             | 24       | ┢                | _            |                | ├  | -        | $\vdash$     | -            | <del> </del>   | $\vdash$ | ⊢        |       | 74       | -        | -          | $\vdash$ | ┢            | $\vdash$        |          | -        | $\dashv$ |          |          | 124        | $\vdash$   | -+               | $\forall$ | $\dashv$ | $\dashv$ | _        |          |          | $\dashv$  |
| ⊢             | 25       |                  | <del> </del> | $\vdash$       | ┢  | -        | ├            | H            | ⊢              | Н        | -        |       | 75       |          | -          |          | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ |          | $\dashv$ | -        | 125        | $\vdash$   | -                | +         | ᅥ        | $\dashv$ |          | ᅥ        |          | $\dashv$  |
| 1             |          | =                | -            | ⊢              | ├  | ├-       | ├            | $\vdash$     | ⊢              |          | ⊢        |       | 76       | -        | -          |          | -            | H               | -        | -        | $\dashv$ | -        |          | 126        | -  |                  | +         | $\dashv$ | $\dashv$ | -        | $\dashv$ |          | $\dashv$  |
| 2             | 26<br>27 | =                |              | $\vdash$       | -  | ⊢        |              |              | ⊢              | Н        | -        | _     | 77       | -        | -          | -        | ╁            | Н               | $\dashv$ | _        |          |          |          | 127        | $\vdash$   |                  | $\dashv$  | $\dashv$ | $\dashv$ | _        |          | -        | $\dashv$  |
| 1             | 28       | Ι-               | -            | -              | ╁  | $\vdash$ | ⊢            | -            | -              | -        | -        |       | 78       | Н        |            | -        | ├            | $\dashv$        | $\dashv$ | $\dashv$ |          | -        | -        | 128        | ⊢  | -                | +         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  |
| <u> </u>      | 29       |                  |              |                | ┢  | $\vdash$ | ├            | H            | ├-             | -        | $\vdash$ |       | 79       | -        | -          | -        | $\vdash$     | Н               | -        | $\dashv$ | ∸╂       |          |          | 129        | -  | -+               | $^{+}$    | -        | $\dashv$ | _        | $\dashv$ |          | $\dashv$  |
| <u> </u>      | 30       | _                | -            | -              | ├  | ├        |              |              | -              | $\dashv$ | ⊢        |       | 80       |          |            | -        | $\vdash$     | $\vdash$        | $\dashv$ | -        |          | -        |          | 130        | ┝  |                  | $\dashv$  | $\dashv$ | $\dashv$ | -        |          |          | $\dashv$  |
| <u> </u>      |          | -                | ├            | -              | ┝  | -        |              | -            |                |          | ⊢        |       | 81       | -        | -          | -        | $\vdash$     | $\vdash$        |          | $\dashv$ |          | $\dashv$ |          | 131        | -  | $\vdash$         | +         | $\dashv$ | -        | -        |          |          | $\dashv$  |
| 1-            | 31       | <del>  _</del> - | ├            | ├-             | ├  | ⊢        | -            | -            | -              | -        | -        |       | 82       | $\vdash$ |            |          | -            | $\vdash$        | $\dashv$ |          | -+       |          |          | 132        | $\vdash$   | $\dashv$         | $^{+}$    | $\dashv$ | $\dashv$ | -        | $\dashv$ | _        | $\dashv$  |
| 3             | 32       | =                | ├-           | -              | ┢  | ┢        | H            | -            | ┢              | $\vdash$ | -        | -     | 83       | $\vdash$ | -          | -        | ├            | Н               | $\dashv$ | -        |          |          |          | 133        | H  | -                | +         | $\dashv$ | $\dashv$ | -        | -        | _        | $\dashv$  |
| 4             | 33<br>34 | <u>=</u>         | -            | -              | $\vdash$   | $\vdash$ | $\vdash$     | -            | ├              | Н        | -        |       | 84       | Н        | $\vdash$   | -        | ┼─           | $\vdash$        |          | -        | $\dashv$ | $\dashv$ |          | 134        | <del>                                     </del> | $\vdash \vdash$  | $\dashv$  | -        | -        | -        | $\dashv$ | $\dashv$ | $\dashv$  |
|               | 35       | ┝                | <del> </del> | -              | ╁  | $\vdash$ | $\vdash$     | -            | -              | $\vdash$ | $\vdash$ |       | 85       | $\vdash$ | $\vdash$   | -        | +            | $\vdash$        |          |          | $\dashv$ | $\dashv$ |          | 135        | $\vdash$   |                  | +         |          | $\dashv$ | $\dashv$ | -        |          | $\dashv$  |
| ├             | 36       | ⊢                | <del> </del> | $\vdash$       | ₩  | $\vdash$ | -            | <del> </del> |                | $\vdash$ | $\vdash$ |       | 86       | $\vdash$ | $\vdash$   | -        | ├-           | $\vdash$        |          | -        |          | $\dashv$ | -        | 136        | -  | $\vdash +$       | +         |          | -        | -        | $\dashv$ | -        | $\dashv$  |
| <u> </u>      |          | ⊢                | -            | <del> </del>   | ├-   | $\vdash$ | -            | -            | ├-             | Н        | -        |       | 87       | $\vdash$ |            | -        | $\vdash$     | Н               |          | {        | $\dashv$ | $\dashv$ |          | 137        | -  |                  | +         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  |
| -             | 37       | $\vdash$         | -            | ├-             | ├  | $\vdash$ | $\vdash$     | $\vdash$     | ├-             |          |          |       | 88       | $\vdash$ | $\vdash$   | -        | ├-           | $\vdash$        | -        |          |          | $\dashv$ |          | 138        |  |                  | ╅         | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
| <u> </u>      | 38       | ⊢                | $\vdash$     |                | ├  | -        | <del> </del> | -            |                | Н        | $\vdash$ |       | 89       | -        |            | -        | ├-           | $\vdash\vdash$  |          |          | $\dashv$ | $\dashv$ | _        | 139        | $\vdash$   | $\vdash$         | +         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
|               | 39       |                  | $\vdash$     | -              | $\vdash$   | -        | -            |              |                | Н        | $\vdash$ |       |          | -        | Н          |          | <del> </del> | $\vdash \vdash$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |          | 140        | $\vdash$   | $\vdash \vdash$  | $\dashv$  | -        | $\dashv$ |          |          | -        | $\dashv$  |
| <u> </u>      | 40       | ⊢                | ├-           | <del> </del>   | ₩  | -        | $\vdash$     |              |                |          | $\vdash$ |       | 90<br>91 | $\vdash$ | Н          | -        | $\vdash$     | $\vdash$        | -        | $\dashv$ | -        | $\dashv$ |          | 141        |  | $\vdash$         | +         | $\dashv$ |          | $\dashv$ | $\dashv$ |          | $\dashv$  |
| <u> </u>      | 41       | -                | -            | $\vdash$       | ├-   | -        | -            | -            | <del> </del>   | Н        | $\vdash$ |       | 91       | Н        | $\vdash$   | -        | $\vdash$     | $\vdash$        |          |          |          | $\dashv$ |          | 141        | ┝  | $\vdash$         | +         |          |          |          | -        | -        | $\dashv$  |
| <b>├</b>      | 42       | <u> </u>         | <del> </del> | ├_             | ├—   | ├-       | <u> </u>     | <u> </u>     |                | Н        |          |       |          |          | $\vdash$   | -        | $\vdash$     | $\vdash$        | _        |          | -        | $\dashv$ |          | 143        | -  |                  | +         |          | $\dashv$ |          | -+       | -        | $\dashv$  |
| <u> </u>      | 43       | <del> </del>     | <u> </u>     | $\vdash$       | ├-   |          | <b>—</b>     | <del> </del> | ├              | Н        |          |       | 93       | Н        | $\vdash$   | -        | -            |                 |          |          |          | $\dashv$ |          | 144        | $\vdash$   |                  | +         | -        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$  |
|               | 44       | <del> </del>     | <u> </u>     | <u> </u>       | ├-   | -        | <del> </del> |              | <del>  -</del> | $\vdash$ |          |       | 94       | -        | -          | -        | ⊢            | $\dashv$        |          |          | $\dashv$ | $\dashv$ | -        | 144        | -  |                  | +         | ÷        | -        |          |          | $\dashv$ | $\dashv$  |
| -             | 45       | <del> </del>     | <u> </u>     | <del>  -</del> | $\vdash$   | -        | <u> </u>     |              | ├              | $\vdash$ | -        |       | 95       |          | $\vdash$   | <u> </u> | ₩            | $\vdash \dashv$ |          |          |          | $\dashv$ |          | 145        | <del> </del>                                     | -                | +         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  |
| <u> </u>      | 46       | <b> </b>         | <u> </u>     | <u> </u>       | <del> </del>                                     | <u> </u> | -            | $\vdash$     | -              | $\vdash$ | -        |       | 96       |          |            | -        | -            | $\vdash \vdash$ | $\dashv$ |          | $\dashv$ | $\dashv$ |          | 147        | -  | <del></del>      | +         | $\dashv$ | $\dashv$ |          | $\dashv$ |          | $\dashv$  |
|               | 47       | <del> </del> —   | <u> </u>     | ⊢              | $\vdash$   | -        | <u> </u>     | ├-           | ├              | Н        | $\vdash$ |       | 97       | $\vdash$ |            | <u> </u> |              |                 | -        |          |          | $\dashv$ | -        | 148        | -  | <del>   </del>   | +         |          |          |          |          |          | _         |
| <u> </u>      | 48       | <u> </u>         | _            | <u> </u>       | <u> </u>   | -        | <u> </u>     | $\vdash$     | <u> </u>       | Н        | $\vdash$ |       | 98       | Щ        | $\vdash$   | _        | ⊢            | $\vdash \vdash$ | -        |          | $\dashv$ | $\dashv$ | -        |            | $\vdash$   |                  | +         |          |          | - 2      | -        | $\dashv$ |           |
|               | 49       | <u> </u>         | <u> </u>     | <u> </u>       | <del> </del>                                     | -        | <b>-</b>     |              | <del> </del>   | Н        | $\vdash$ |       | 99       | Н        |            | <u> </u> | -            | $\vdash$        | _        |          |          | $\dashv$ | -        | 149<br>150 | -  |                  | +         | -        |          |          | -        | $\dashv$ |           |
| L             | 50       |                  | <u> </u>     | <u> </u>       |  | $\bot$   | <u>L</u> .   |              | L              | ╙        | L        |       | 100      | لـــا    |            |          | 1            | Ш               |          |          |          |          | L        | 100        | L  | ot               | ᆚ         | 1        |          |          | 1        |          |           |